

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P588349

Luminaire Tested: **ARC-CA6-100-722-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC-CA6-100-722-U-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8114 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U3 - G3

Input Watts (W): 103.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

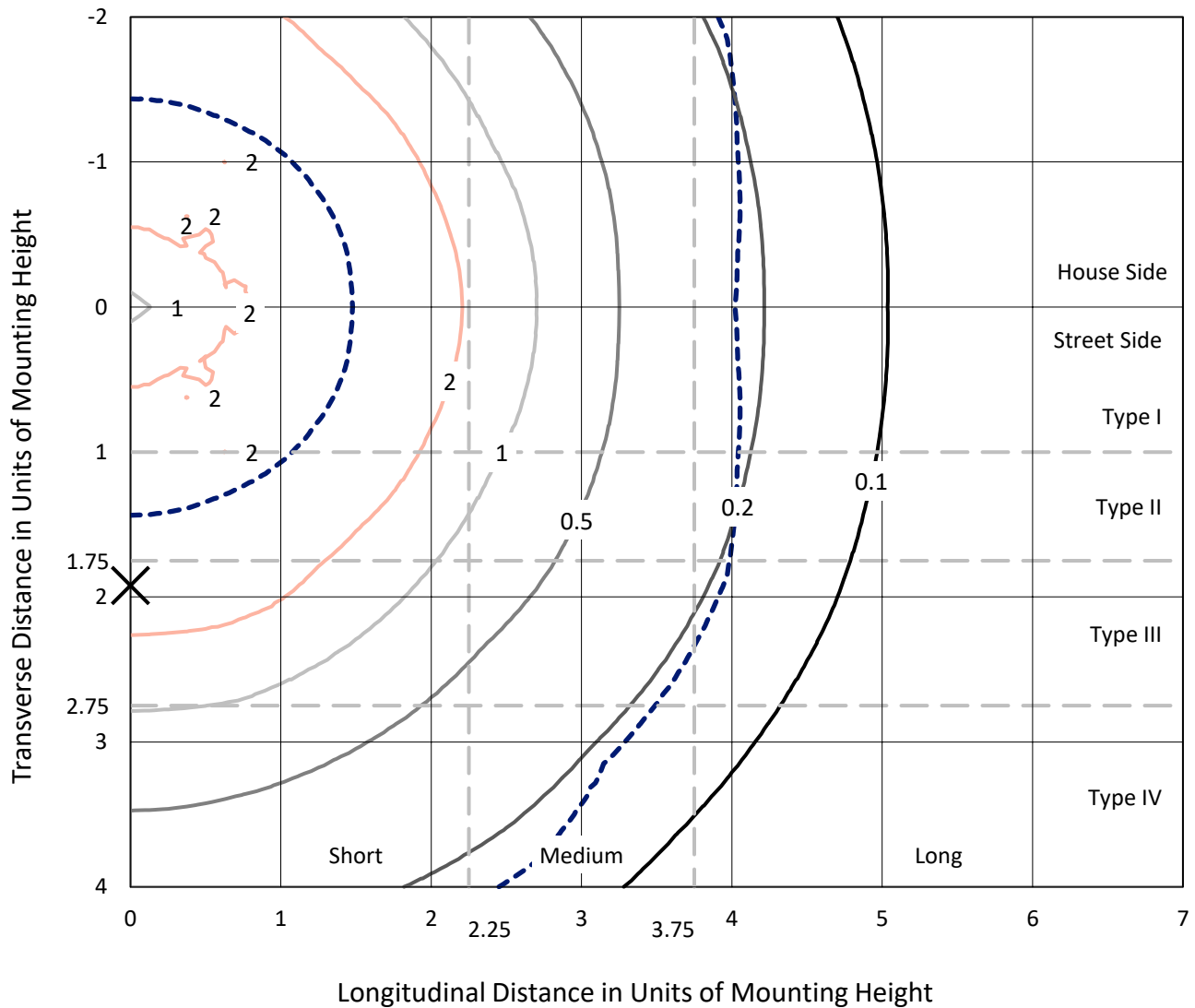


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

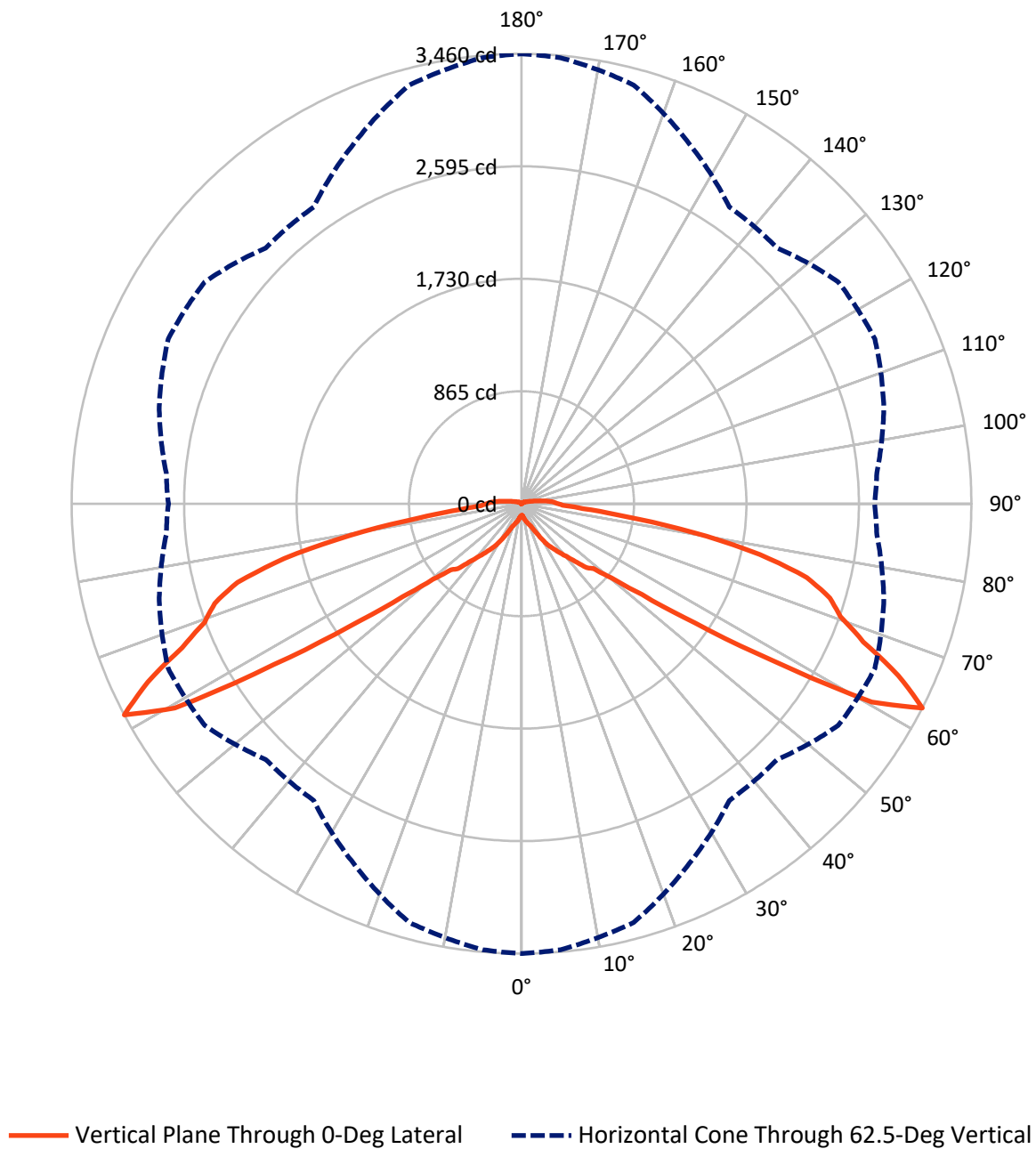


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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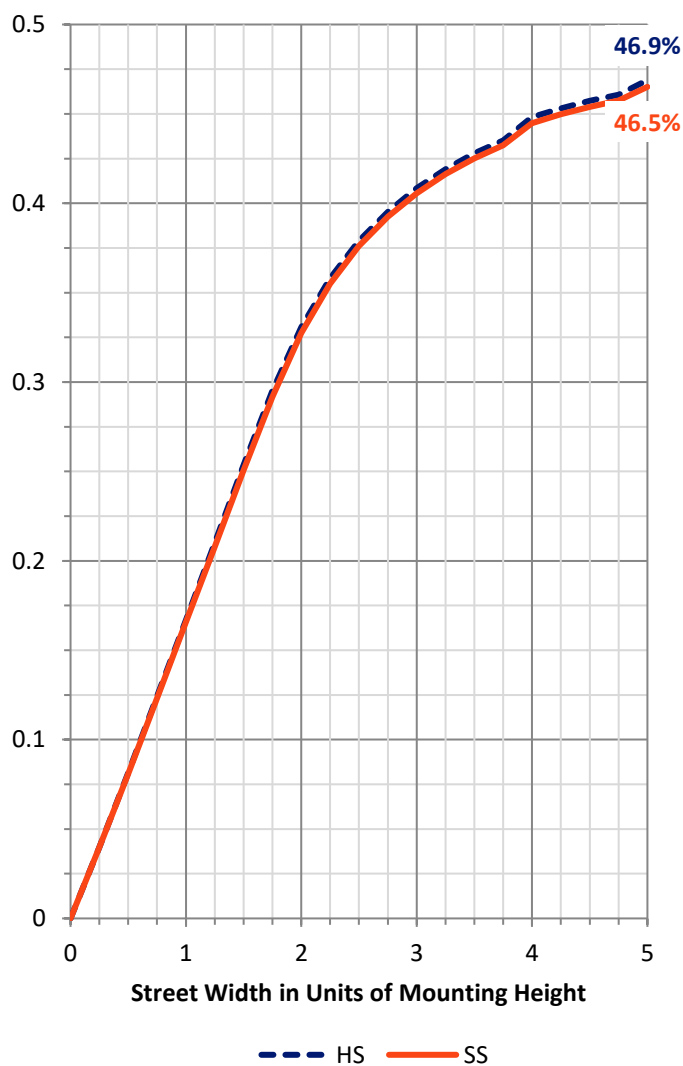
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3901.1	155.9	4057.0
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	3901.1	155.9	4057.0
	% Fixture	48.1	1.9	50.0
Total	Lumens	7802.2	311.8	8114.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.7	0.1
10°-20°	40.9	0.5
20°-30°	107.9	1.3
30°-40°	245.4	3.0
40°-50°	496.4	6.1
50°-60°	1469.5	18.1
60°-70°	2760.8	34.0
70°-80°	2052.1	25.3
80°-90°	619.5	7.6
90°-100°	201.0	2.5
100°-110°	70.4	0.9
110°-120°	27.2	0.3
120°-130°	10.8	0.1
130°-140°	2.2	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	7802.2	96.2
0°-180°	8114.0	100.0

Coefficient of Utilization



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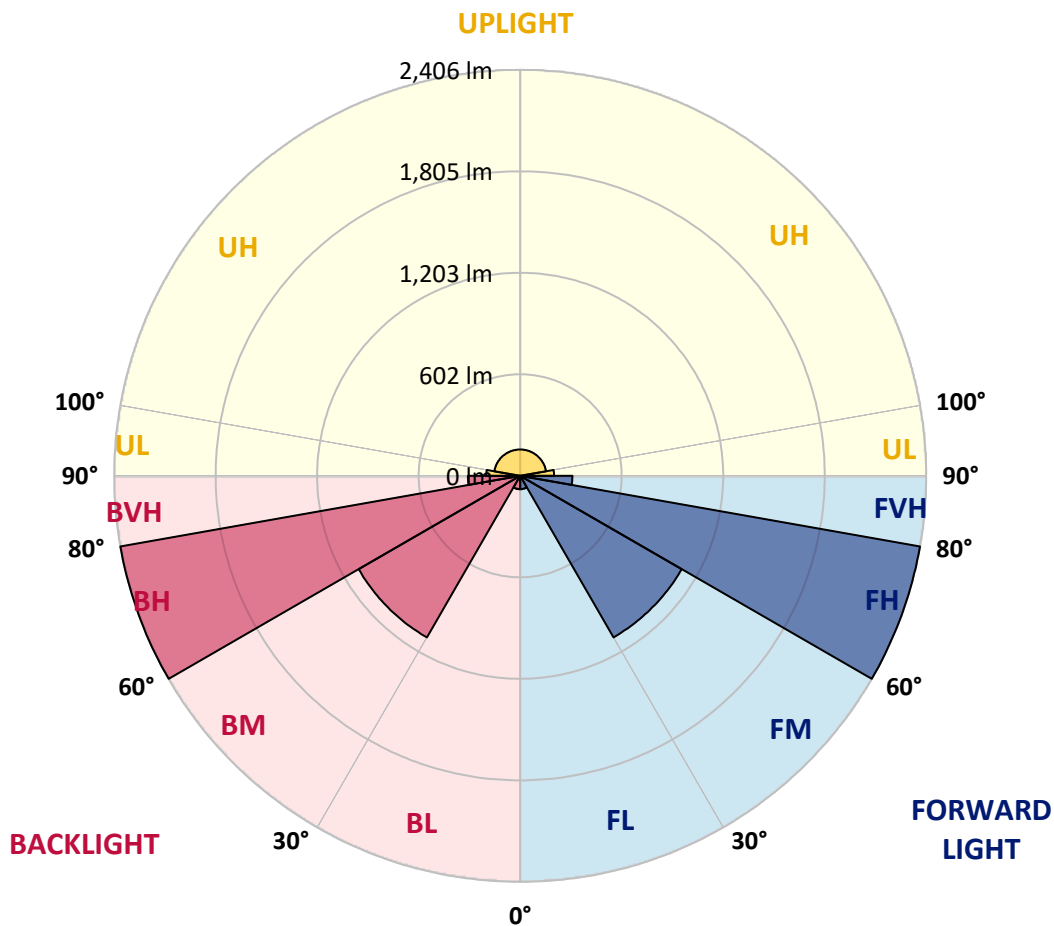
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	79.2	1.0			
FM	(30°-60°)	1105.7	13.6			
FH	(60°-80°)	2406.4	29.7			G2/5000
FVH	(80°-90°)	309.7	3.8			G3/500
BL	(0°-30°)	79.2	1.0	B0/110		
BM	(30°-60°)	1105.7	13.6	B2/2500		
BH	(60°-80°)	2406.4	29.7	B3/2500		G2/5000
BVH	(80°-90°)	309.7	3.8			G3/500
UL	(90°-100°)	201.0	2.5		U3/500	
UH	(100°-180°)	155.9	1.9		U3/500	

BUG Rating: B3-U3-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
2.5°	90.8	90.8	90.8	89.2	87.7	87.7	87.7	87.7	86.2	86.2	86.2
5°	95.4	95.4	93.8	92.3	92.3	90.8	92.3	90.8	90.8	90.8	92.3
7.5°	106.2	106.2	104.6	104.6	104.6	103.1	103.1	103.1	103.1	101.5	103.1
10°	118.5	118.5	118.5	118.5	118.5	116.9	116.9	115.4	115.4	115.4	115.4
12.5°	132.3	130.8	130.8	132.3	130.8	129.2	129.2	129.2	127.7	127.7	127.7
15°	144.6	144.6	143.1	143.1	143.1	141.5	141.5	140.0	140.0	138.5	138.5
17.5°	156.9	156.9	155.4	153.8	153.8	153.8	152.3	152.3	150.8	150.8	150.8
20°	172.3	170.8	169.2	167.7	166.2	166.2	166.2	166.2	164.6	163.1	163.1
22.5°	189.2	187.7	186.2	184.6	184.6	183.1	183.1	181.5	181.5	180.0	178.5
25°	224.6	224.6	218.5	216.9	216.9	218.5	216.9	215.4	212.3	207.7	207.7
27.5°	272.3	273.8	275.4	283.1	281.5	270.8	264.6	261.5	260.0	260.0	261.5
30°	326.2	327.7	332.3	340.0	335.4	321.5	306.2	300.0	304.6	310.8	312.3
32.5°	383.1	383.1	373.8	363.1	352.3	343.1	338.5	335.4	333.8	329.2	329.2
35°	427.7	420.0	390.8	355.4	344.6	350.8	369.2	375.4	352.3	330.8	327.7
37.5°	478.5	476.9	453.8	427.7	407.7	404.6	424.6	430.8	406.2	392.3	390.8
40°	532.3	535.4	540.0	529.2	498.5	489.2	478.5	470.8	470.8	472.3	469.2
42.5°	604.6	609.2	609.2	610.8	586.1	564.6	543.1	530.8	529.2	541.5	546.1
45°	701.5	701.5	690.8	669.2	658.5	643.1	629.2	616.9	610.8	612.3	616.9
47.5°	744.6	747.7	738.5	707.7	700.0	684.6	664.6	660.0	663.1	667.7	669.2
50°	895.4	887.7	824.6	760.0	736.9	752.3	781.5	789.2	760.0	730.8	723.1
52.5°	1160.0	1158.5	1109.2	1061.5	1029.2	1020.0	1060.0	1063.1	1012.3	990.8	987.7
55°	1618.4	1601.5	1638.4	1661.5	1593.8	1518.5	1490.8	1452.3	1455.4	1498.5	1500.0
57.5°	2269.2	2278.4	2320.0	2260.0	2156.9	2101.5	2063.1	1990.8	1992.3	2030.8	2033.8
60°	3095.4	3093.8	2961.5	2730.7	2572.3	2583.1	2689.2	2704.6	2540.0	2433.8	2421.5
62.5°	3460.0	3443.1	3333.8	3053.8	2786.1	2781.5	2973.8	2998.4	2884.6	2743.1	2715.4
65°	3184.6	3170.7	3216.9	3121.5	2769.2	2678.4	2736.9	2730.7	2803.1	2867.7	2875.4
67.5°	2835.4	2838.4	2949.2	2920.0	2675.4	2521.5	2447.7	2438.4	2573.8	2724.6	2744.6
70°	2601.5	2601.5	2680.0	2561.5	2444.6	2344.6	2267.7	2220.0	2307.7	2332.3	2330.8
72.5°	2481.5	2470.8	2415.4	2301.5	2212.3	2124.6	2147.7	2112.3	2070.8	2006.1	2000.0
75°	2267.7	2255.4	2178.4	2124.6	2060.0	1950.8	1970.8	1935.4	1866.1	1807.7	1798.4
77.5°	1873.8	1873.8	1824.6	1784.6	1766.1	1672.3	1663.1	1646.1	1576.9	1544.6	1532.3
80°	1341.5	1338.5	1318.5	1304.6	1327.7	1272.3	1247.7	1247.7	1220.0	1190.8	1176.9
82.5°	798.5	787.7	787.7	792.3	778.5	743.1	749.2	784.6	781.5	764.6	752.3
85°	472.3	466.2	461.5	455.4	443.1	418.5	418.5	421.5	424.6	426.2	420.0
87.5°	315.4	313.8	313.8	313.8	300.0	283.1	290.8	295.4	292.3	290.8	289.2
90°	275.4	276.9	275.4	269.2	256.9	241.5	244.6	250.8	247.7	247.7	246.2
92.5°	247.7	247.7	244.6	238.5	226.2	212.3	213.8	216.9	215.4	213.8	212.3
95°	203.1	203.1	200.0	195.4	184.6	172.3	173.8	176.9	173.8	173.8	172.3
97.5°	158.5	158.5	156.9	153.8	144.6	135.4	136.9	138.5	136.9	136.9	135.4
100°	120.0	120.0	118.5	113.8	109.2	101.5	103.1	106.2	104.6	104.6	103.1
102.5°	89.2	89.2	87.7	86.2	80.0	75.4	76.9	76.9	76.9	75.4	75.4
105°	69.2	69.2	69.2	66.2	63.1	58.5	58.5	58.5	58.5	56.9	56.9
107.5°	55.4	53.8	53.8	52.3	49.2	46.2	46.2	46.2	46.2	46.2	46.2
110°	44.6	43.1	41.5	41.5	38.5	36.9	35.4	36.9	36.9	36.9	36.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	38.5	36.9	33.8	33.8	32.3	29.2	29.2	29.2	32.3	30.8	30.8
115°	33.8	32.3	27.7	27.7	26.2	24.6	24.6	24.6	27.7	24.6	24.6
117.5°	29.2	27.7	23.1	23.1	21.5	20.0	20.0	20.0	23.1	20.0	20.0
120°	21.5	21.5	18.5	18.5	18.5	16.9	16.9	16.9	18.5	16.9	16.9
122.5°	16.9	16.9	15.4	15.4	15.4	13.8	13.8	13.8	13.8	12.3	12.3
125°	16.9	20.0	12.3	12.3	10.8	10.8	10.8	9.2	10.8	9.2	9.2
127.5°	18.5	16.9	9.2	9.2	9.2	7.7	7.7	7.7	7.7	7.7	7.7
130°	6.2	9.2	6.2	6.2	6.2	6.2	6.2	6.2	4.6	4.6	4.6
132.5°	4.6	4.6	4.6	4.6	4.6	4.6	3.1	3.1	3.1	3.1	3.1
135°	3.1	3.1	3.1	3.1	3.1	3.1	1.5	1.5	1.5	1.5	1.5
137.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
170°	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5
172.5°	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
175°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
177.5°	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)